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EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 62050455
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APPLICANT : KANMETA ENG KK;

INVENTOR : UENO GUNJI;

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TITLE : COATING METHOD WITH CERAMIC

ABSTRACT : PURPOSE: To obtain a tough ceramic coating layer having high adhesion, superior heat, corrosion and wear resistances and high hardness by thermally spraying a composite material consisting of ceramics and a polymer on a surface to be processed.

CONSTITUTION: The surface of a material to be processed is ground according to the thickness of a coating layer to be formed and it is roughened by blasting or other method. After an underlayer is preferably formed by thermally spraying composite Ni-Al powder or the like, a composite material consisting of ceramics such as Cr_2O_3 , $\text{Cr}_2\text{O}_3\text{-SiO}_2$, other metallic oxide, TiC, other metallic carbide, ZrB_2 or other metallic boride and a polymer such as polypropylene resin or silicone resin is thermally sprayed with plasma, a flame or the like. The surface of the resulting ceramic layer is treated with a pore sealing agent such as epoxy resin to seal the pores and the coated material is subjected to finish working to prescribed dimensions.

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